MeCan imaging

NYP330-P33M – Microscope Documentation Set

Photomicrograph with Nikon CoolPix P330 !

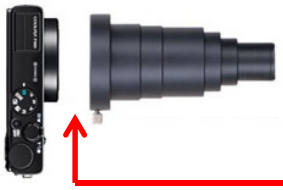
Adapter Parts

Main Unit Relay Lens

Φ30mm Conversion Ring

C-Mount Sleeve

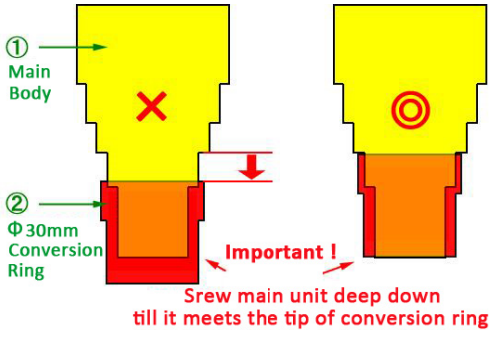
Installation



Attach adapter to camera lens parts and tighten with screw

** For installation to microscope, please see next page

When using Φ30mm conversion ring
Insert main unit all the way down to the 30Φring. It should be fit tight.



When using C-mount sleeve

1. Attach C-mount sleeve into microscope C-mount.
2. Insert main unit (with φ30mm conversion ring) into C-mount sleeve and secure with screw.

Installation to Microscope

Installing to Eyepiece

Remove eyepiece and insert adapter to eyepiece tube.
When tube inside diameter is Φ30mm, attach conversion ring to main unit first, and insert it into eyepiece tube.
When it is Φ23.2mm, insert main unit directly into eyepiece tube.

* Adapter may start to rotate when diopter ring is attached to eyepiece. In such case, insert the adapter after turning diopter ring to either end.

Nikon F phototube

Insert main unit to Nikon F-tube. In recent Nikon models, the ones With V-T phototube part is equipped with F-tube.
In older models, Optiphot, Biophot, SMZ-2T trinocular models are with F-tube. When 35mm camera or Polaroid system is installed to microscope, it is likely be same as the old models.

*SMZ-10 require optional sleeve. * Adapter may start to rotate when diopter ring is attached to eyepiece. In such case, insert the adapter after turning diopter ring to either end.

C-mount

C-mounts is often used for attaching CCD cameras, and has male screw of outer diameter 25.4mm. First, attach C-mount sleeve to microscope C-mount. Second, insert main unit (with φ30mm conversion ring) into C-mount sleeve and secure with screw.

*Compatible only with direct (1.0x) C-mount.
C-mount with lens inside should not be used.

Olympus PT phototube

A PT phototube has an outer diameter of φ38mm with curving threads at the top. U-SPT, SZ-PT tubes are with PT-tube. When 35mm camera or Polaroid system is installed to microscope, it is likely be PT tube. It requires fixation sleeve **NY-BH (option)** to secure adapter to microscope.

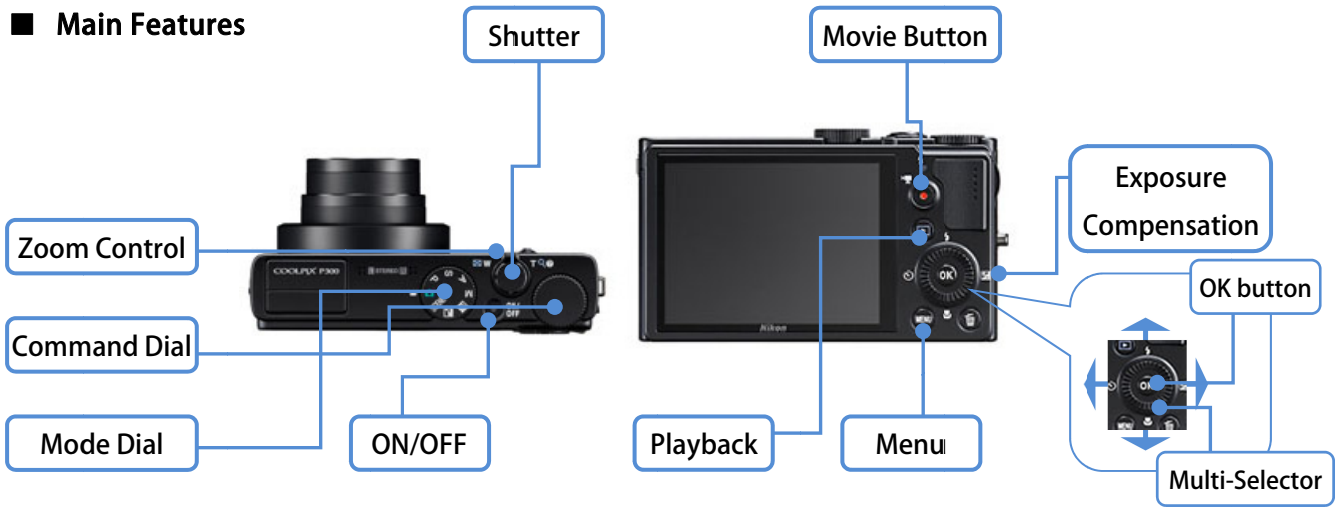
JIS phototube

JIS tube has outer diameter φ25mm,
and inner diameterΦ23.2mm. Old Olympus models are often equipped with JIS tube. It requires fixation sleeve **NY-JIS (option)** to secure adapter to microscope

*without NY-JIS, image may come out blurry.

Camera Setting

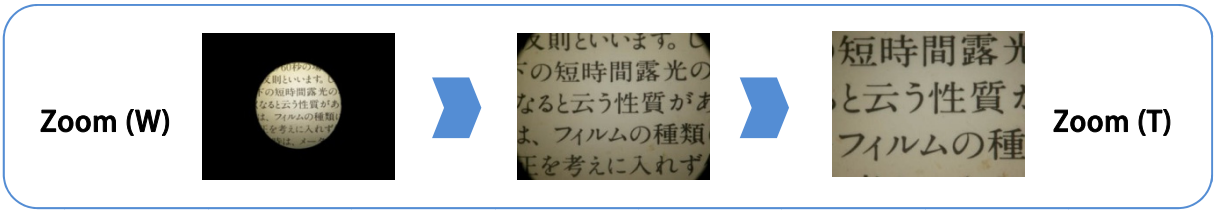
■ **Main Features**



** Please refer to camera manual for basic operation and initial set up.

○ Easy Setting ・・・ Easy semi-auto mode

- Set the Mode Dial to Scene.
- Press Menu Button , and rotate command dial to select Landscape. Press OK.
- Press Zoom control to T (right). Zoom up till there will be no vignette.



- Focus with microscope focus handle while checking image on LCD viewer.
  ** Focus point is different for microscope and digital cameras.
  Please make sure to focus with microscopes while watching LCD viewer.
- Press Shutter Release (or remote shutter) to capture image.
- Press the Playback Button to check image taker
- Press Exposure Button. Press the multi selector ▲ or ▼ to adjust exposure.

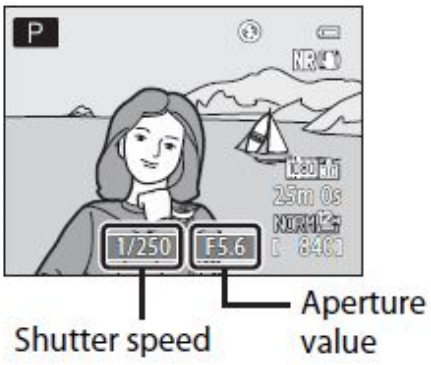
○ **Manual Setting** ・・・Try manual setting when not satisfied with brightness, focusing, or color level of the image taken with easy setting.

- Rotate and set Mode Dial to M (manual).
- Press Focus Mode on the multi-selector. Select MF (manual focus) and press OK.
- Using Multi- Selector , set focus level to∞ (Infinite) and fix.
- Adjust the focus with microscope fine adjusting handle.
- Press Zoom control to T (right). Zoom up till there will be no vignette.
- Press Menu Button and select ISO Sensitivity by rotating Command dial.

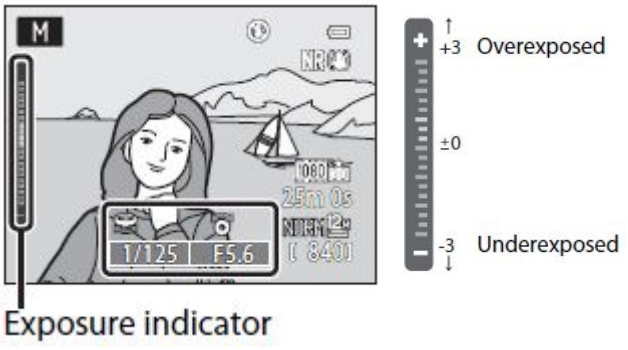
＊ISO sensitivity is camera′ s base sensitivity. Higher the number, more you be able to capture images in dark environment. However, when it is set higher than 800, noise starts to appear, therefore try keeping it low level as long as there is no light shortage.

Exposure Compensation

- Press Exposure Compensation Button and set setting criteria to F (exposure).
- Rotate Multi- Selector and select lowest F# value.
- Press Exposure Compensation Button again and set setting criteria to Shutter Speed.



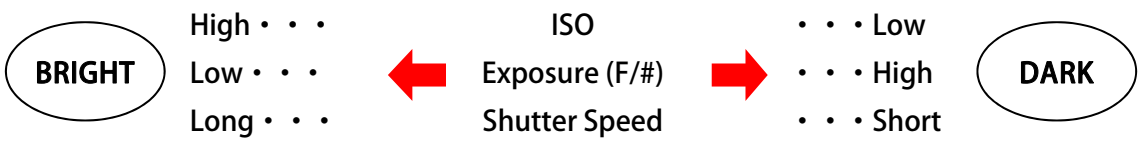
- Set Mode Dial to M. Rotate Command Dial until Exposure Indicator indicate center value (±0)



- Take a picture for a test. When image is too bright, try shorter shutter speed(－).

In the same manner when image is too dark, try longer shutter speed (+)

Brightness of image depends on following 3 criteria.
Please refer when using manual setting.



• When setting is finished, take a picture for test by pressing shutter release.
Pressing Playback button after taking shot enables you to see and check image.

○ **Other Setting** • • Please also refer to CoolPix P330 user manual for detail

• **White Balance** • • Please adjust white balance manually when it is hard to produce desired image due to the sample color or tone of light. (P65 & Ref P32)

• **Image Size** • • Small data size enables you to capture more images with single memory card and easy to handle whereas large data size is more suitable for printing and enlargement. (P71)

• **Auto Off** • • When no operation is performed for the selected time length, the monitor would shut off and camera enter standby mode. When the AC adapter is connected, it is set for 30 minutes automatically. (P19 & Ref P78)

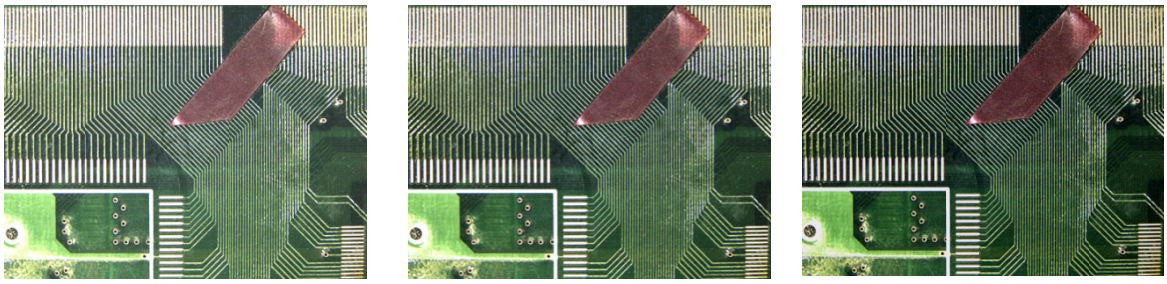
• **Date Imprint** • • Date and time of recording can be imprinted on pictures. (Ref P74)

• **Stabilizer** • • Use self-timer 2S (two second) to stabilize the camera. (P55)

Other thing you can do with CoolPix P330

Exposure Bracketing enables to capture image with 3 different exposures in a single shot.

(Ref P42)

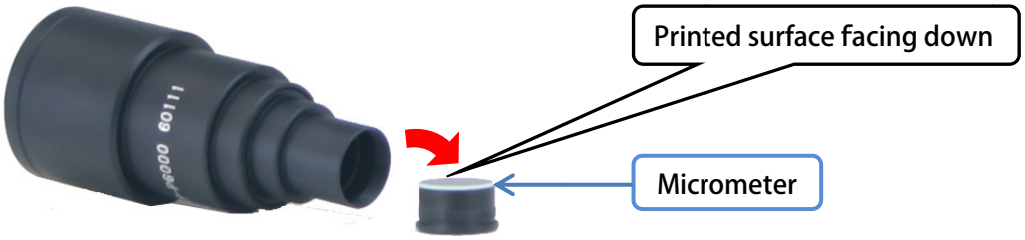


+0.3 | Base Pic | −0.3

Active D-Lighting reduces over and under exposure, preserve details in highlights and shadows, creating photograph with natural contrast. (Ref P50)

Ocular Micrometer Installation

Φ21mm ocular micrometer can be installed into NY-P330. First turn the adapter tip to counter-clockwise and remove installing bracket. Next, insert ocular micrometer to bracket with printed surface facing down. Finally, reinstall bracket to adapter body to set.



S11-CF - Special design micrometer for digital camera adapter

(10mm/100split pitch 0.1mm)

S11-CF removes numbers written on the micrometer and also shifted scale slightly to the edge for clearer view.